This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A method for transmitting service data in telecommunication systems with wireless telecommunication based on a predefined radio interface protocol between telecommunication devices, comprising the steps of:

transmitting ~~said service data in~~ protocol data~~, units~~ predefined by said radio interface protocol, wherein said protocol data comprises a plurality of protocol data units;

transmitting ~~a~~ said service data within said protocol data, wherein the service data comprises a plurality of service data units, and wherein each service data unit corresponds at least in part to a free part of a respective~~unit configured at least as a fragment in each~~ protocol data unit ~~independently of the size of said service data unit, which is configured at least as a fragment, in comparison with the size of a free part of said each protocol data unit which is in each case not yet occupied by service data~~;

allocating first information items to the protocol data units, wherein the first information items specify~~specifying, in each case,~~ a respective service data length~~, which differs from the value "zero", of a respective said~~ of corresponding service data units, said first information items each having a value that is different from "zero"; ~~configured at least as a fragment, by a first information item allocated to said protocol data unit;~~

allocating second information items to the protocol data units, wherein the second information items specify~~specifying, in each case, an~~ a respective end of ~~said respective~~ corresponding service data units ~~by a second information item allocated to said protocol data unit~~;

allocating third information items to the protocol data units, wherein the third information items specify~~specifying, in each case,~~ a respective non-end of ~~said respective~~corresponding service data units ~~by a third information item allocated to said protocol data unit~~; and

~~specifying or~~ allocating a fourth information item, corresponding to the value "zero" of the service data length to ~~said~~ a respective end protocol data unit, together with ~~said~~ a

respective second information item in said end protocol data unit when said transmission of service data is ended at least temporarily.

Claim 2. (currently amended) The method as claimed in Claim 1, further comprising the step of transmitting ~~in a protected manner~~ said service data in a protected manner.

Claim 3. (currently amended) The method as claimed in Claim 1, further comprising the steps of arranging ~~said~~ a first information item~~, said second information item and said third information item~~ in front of ~~said~~ a respective service data unit~~, which is at least configured as a fragment, in said respective protocol data unit~~, and arranging a second or third information item at the end of the respective service data unit.

Claim 4. (previously presented) The method as claimed in Claim 1, wherein said second information item consists of the value "0" of a bit and said third information item consists of the value "1" of the bit.

Claim 5. (previously presented) The method as claimed in claim 1, wherein said data in telecommunication system is voice or packet data in DECT systems.

Claim 6. (previously presented) The method as claimed in claim 1, wherein said service data is ended at least temporarily within said protocol data unit.